

1 1. A workpiece holder for use in processing a workpiece comprising:
2 a workpiece support;
3 at least one finger assembly mounted upon said workpiece support; said at least one finger
4 assembly including at least one contact for contacting the workpiece;

5 at least one finger actuator operable with said at least one finger assembly for moving said
6 finger assembly between an engaged position wherein said finger assembly is in contact with the
7 workpiece and a disengaged position wherein said finger assembly is disengaged from the
8 workpiece, said at least one finger actuator having means for moving the at least one finger
9 assembly in an axial movement toward and from the workpiece along a longitudinal axis, and
10 means to rotate the at least one finger assembly in a rotational movement about said longitudinal
11 axis;

12 at least one electrode forming a part of said at least one finger assembly, said at least one
13 electrode having an electrode contact for contacting a surface of said workpiece to provide
14 electrical connection therewith, wherein said electrode contact is one of said at least one contact.

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16 2. The workpiece holder of claim 1 wherein said at least one finger actuator moves
17 said at least one finger assembly in a reciprocal manner.

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19 3. The workpiece holder of claim 1 and further comprising at least one protective
20 sheath covering at least a portion of the at least one finger assembly to protect the finger assembly
21 from contact with a fluid.

1 4. The workpiece holder of claim 1 and further comprising at least one protective
2 sheath covering at least a portion of the at least one finger assembly to protect the finger assembly
3 from contact with a plating fluid, said at least one protective sheath being made from a dielectric
4 material.

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6 5. The workpiece holder of claim 4 wherein said at least one protective sheath
7 includes a rim portion for engaging said workpiece and forming a seal therebetween.

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9 6. The workpiece holder of claim 4 wherein said electrode contact is maintained in a
10 generally retracted position within said at least one protective sheath when said at least one finger
11 assembly is in said disengaged position; said electrode contact being moved out of said retracted
12 position when said at least one finger assembly is moved into said engaged position.

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14 7. The workpiece holder of claim 4 wherein said at least one protective sheath
15 includes a yieldable terminal end adjacent said electrode contact for engaging said workpiece and
16 effectively sealing said electrode contact therewith when said at least one finger assembly is
17 moved to said engaged position; wherein said electrode contact is maintained in a generally
18 retracted position within said at least one protective sheath when said at least one finger assembly
19 is in said disengaged position; said electrode contact being moved out of said retracted position
20 when said finger assembly is moved into said engaged position.